

Claims

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1. Valve spring retainer plate for supporting the valve forces of closing springs acting upon gas exchange valves in the operation of internal combustion engines, having a reinforcement member of a material of lower strength and an annular supporting member of a material of higher strength being positioned between the reinforcement member and the closing spring, characterized in that the supporting member (14) is maintained on the reinforcement member (12) in a friction fit.

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2. Valve spring retainer plate according to claim 1, characterized in that the supporting member (14) is maintained on a hub section (12b) of the reinforcement member (12) by means of a radially inwardly positioned annular section (14b).

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3. Valve spring retainer plate according to claims 1 and 2, characterized in that the supporting member (14) is mounted at the reinforcement member (12) with a slight pressure fit.

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4. Valve spring retainer plate according to claims 1 to 3, characterized in that the supporting member (14) is having a L-shaped cross-section and that the radially inwardly positioned annular section (14b) thereof is contacting the hub section (12b) of the reinforcement member (12) with a slight pressure fit.

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5. Valve spring retainer plate according to one or more of claims 1 to 4, characterized in that the supporting member (14) is manufactured from steel by deep-drawing.

6. Valve spring retainer plate according to claim 5, characterized in that the radially inwardly positioned ring section (14b) is slightly conically extending with respect to the hub section (12b) of the reinforcement member (12).

7. Valve spring retainer plate according to one or more of claims 1 to 6, characterized in that the reinforcement member (12) made from a light alloy, especially from an aluminium alloy.